

IN THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 is amended.

Claim 38 is added.

Claims 4 - 15 and 20 - 37 are cancelled.

Claims 1-3, 16-19, and 38 are pending.

Listing of Claims:

1. (Currently Amended) An instrumented prosthetic foot for use with an actuated leg prosthesis controlled by a controller, the instrumented prosthetic foot comprising:

an elongated body having a top and a bottom part;

a connector to connect the instrumented prosthetic foot to the leg prosthesis; and

a pair of load sensors interposed between and interconnecting the connector and the top part of the elongated body and positioned side by side, the pair of load sensors being configured to measure the load ~~pressure force~~ on the connector;

wherein the pair of load sensors are in close proximity to one another and free of any other load bearing element therebetween so as to support essentially the full load on the connector and to be deformable thereby as to provide for multidirectional movement of the connector relative to the elongated body thereby sensing the load during movement in any direction ~~the connector is mounted to the top part of the elongated body only by way of the pair of sensors.~~

2. (Previously Presented) An instrumented prosthetic foot according to claim 1, wherein:

the bottom part of the elongated body includes a pair of basic underfoot locations, the first region corresponding to the heel area of the human foot and second region corresponding to the toe area of the human foot.
3. (Previously Presented) An instrumented prosthetic foot according to claim 2, wherein:

a sensor of the pair of sensors is associated with each basic underfoot locations of the elongated body.
4. - 15 (Cancelled)
16. (Previously Presented) An instrumented prosthetic foot according to claim 1, wherein:

the pair of sensors transmits signals to the controller using a wired connection.
17. (Previously Presented) An instrumented prosthetic foot according to claim 1, wherein:

the pair of sensors transmits signals to the controller using a wireless connection.
18. (Original) An instrumented prosthetic foot according to claim 1, wherein:

the connector removably connects the instrumented prosthetic foot to the leg prosthesis.

19. (Previously Presented) An instrumented prosthetic foot according to claim 3, wherein:

a first sensor of the pair of sensors being slightly biased towards the heel region of the elongated body and a second sensor of the pair of sensors being slightly biased towards the toe region of the elongated body.

20. - 37. (Cancelled)

38. (New) An instrumented prosthetic foot for use with an actuated leg prosthesis controlled by a controller, the instrumented prosthetic foot comprising:

an elongated body having a top and a bottom part, a mounting bracket carried on the top part;

a connector to connect the instrumented prosthetic foot to the leg prosthesis; and

a pair of load sensors interposed between and interconnecting the connector and the mounting bracket of the elongated body and positioned side by side, the pair of load sensors being configured to measure the load on the connector;

wherein the pair of load sensors are in close proximity to one another, the pair of load sensors supporting the full load on the connector and deformable thereby as to provide for multidirectional movement of the connector relative to the elongated body thereby sensing the load during movement in any direction.